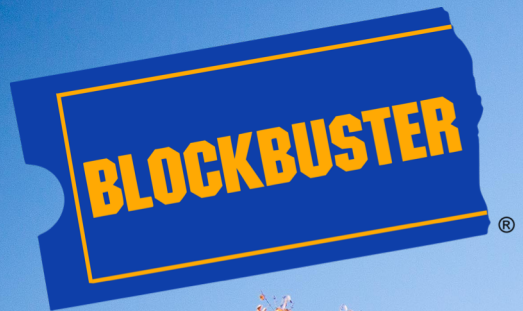




# Credentials, Education and Workforce: A Look at the Future

Nelson Baker, Dean, Georgia Tech Professional Education





**Kodak**



*Sears*



# Career paths that didn't exist 10 years ago

Cloud Architect

Mobile App  
Developer

Autonomous  
Vehicle  
Engineer

SEO Strategist

UX/UI  
Designer

Data Scientist

Drone Pilot

AI Specialist

AR/VR  
Implementation  
Analyst



**Futurists estimate up to**  
**85%**  
**of the jobs that will exist**  
**in 2030 haven't been**  
**invented yet**

Institute for the Future, The Next Era of Human/Machine Partnerships:  
Emerging Technologies' Impact on Society and Work in 2030, 2017



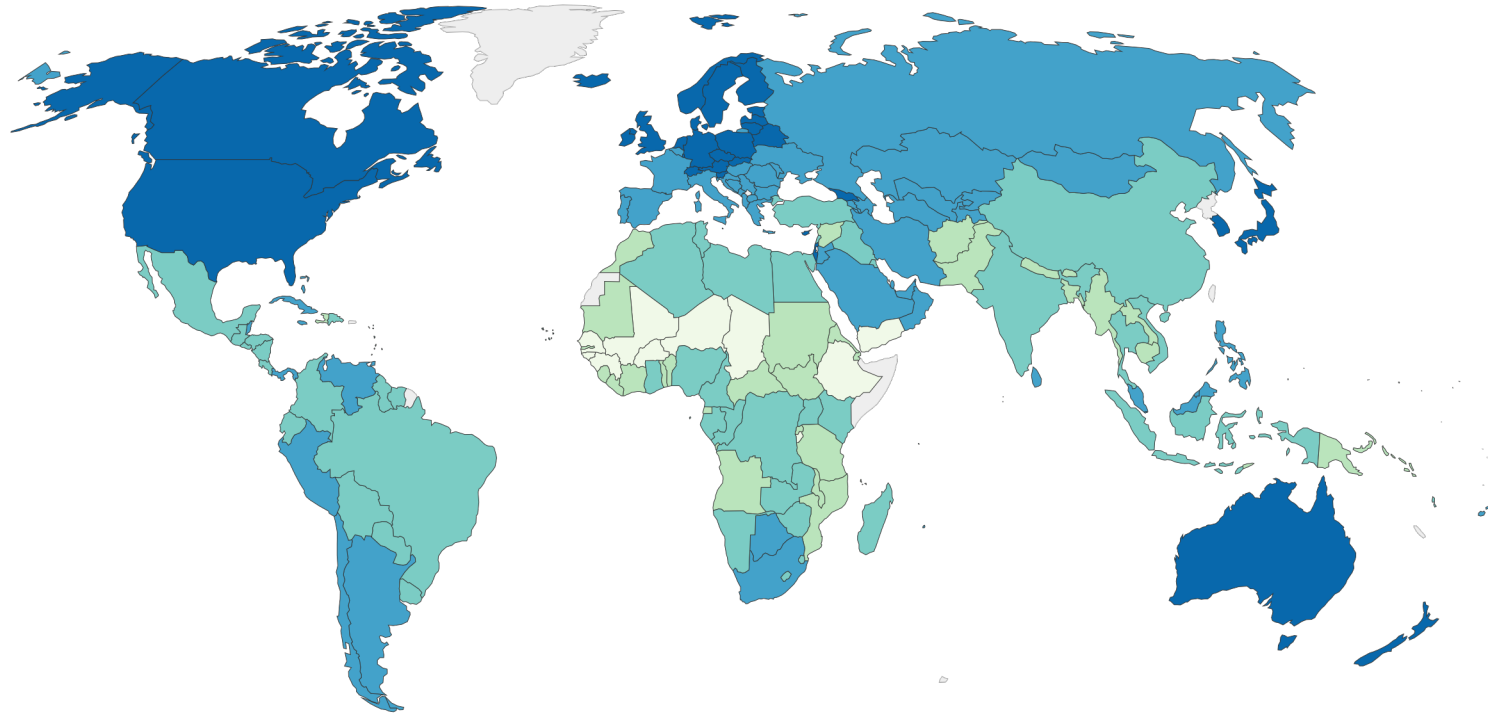






# Mean years of schooling, 2017

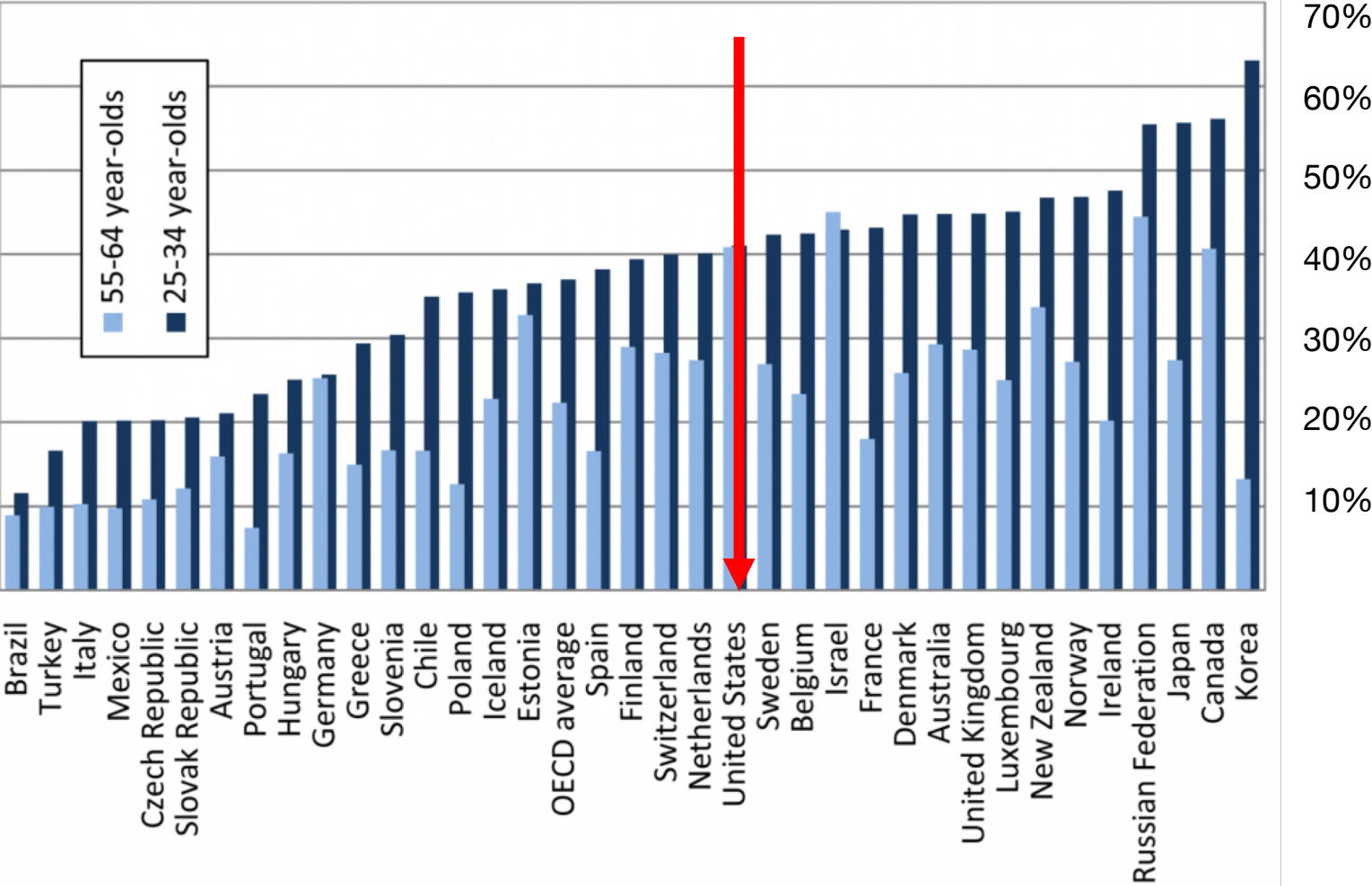
Average number of years of total schooling across all education levels, for the population aged 25+



Source: Lee-Lee (2016), Barro-Lee (2018) and UNDP, HDR (2018)

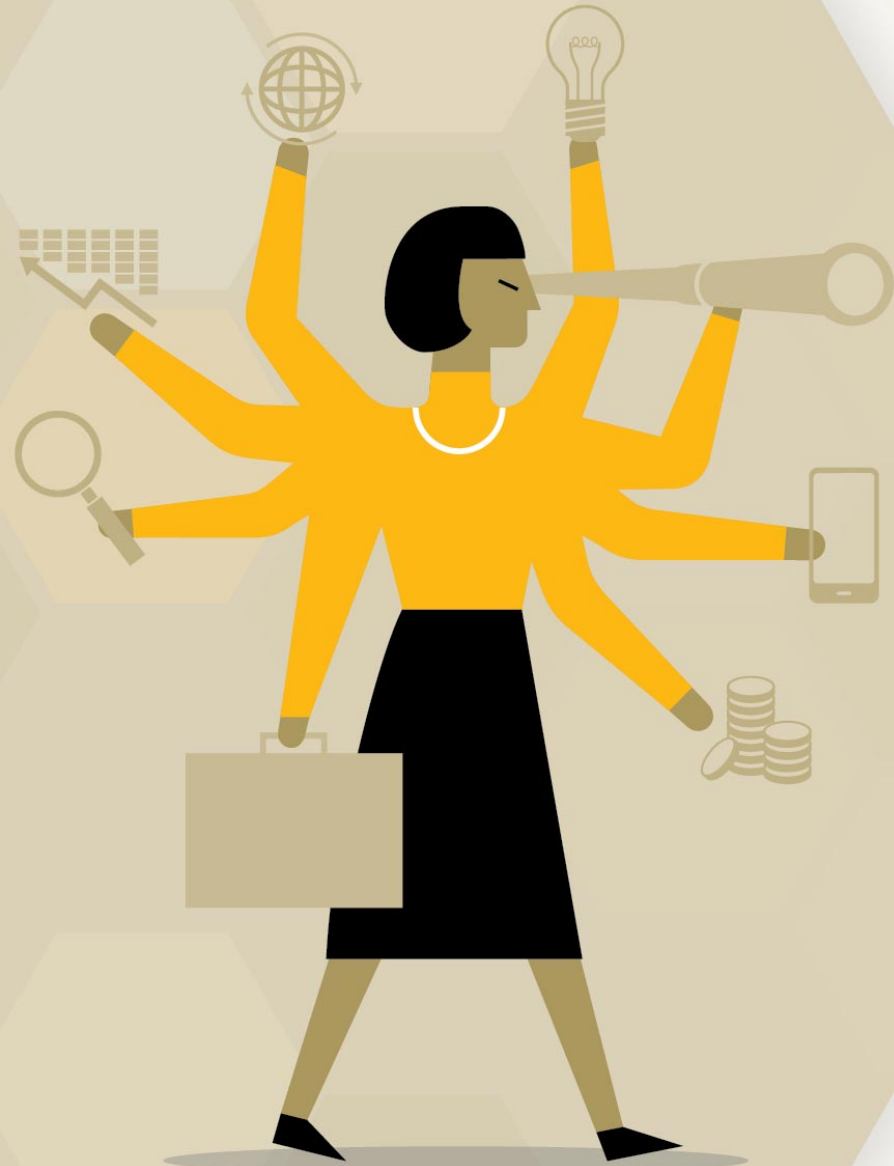
[OurWorldInData.org/global-rise-of-education](https://OurWorldInData.org/global-rise-of-education) • CC BY

# Global Educational Attainment



Source: OECD, 2011





People will hold an average of  
**12 jobs**  
during their lifetime

National Longitudinal Survey, Bureau of Labor Statistics, 2017



Base Knowledge/Skills

D  
e  
p  
t  
h

T-Shaped Person









**40%**  
of students attending U.S.  
colleges and universities are  
**adult learners**  
**age 25 and older**

National Longitudinal Survey, Bureau of Labor Statistics, 2017



# Alternative Credentials

## Hallmarks in Credential Innovation

1. Advocacy and Leadership within the University
2. Entrepreneurial Initiative
3. University-to-Business Stakeholder Engagement
4. The Faculty Experience
5. The Learner Experience
6. Digital Technology
7. External Advocacy and Leadership
8. Professionalism

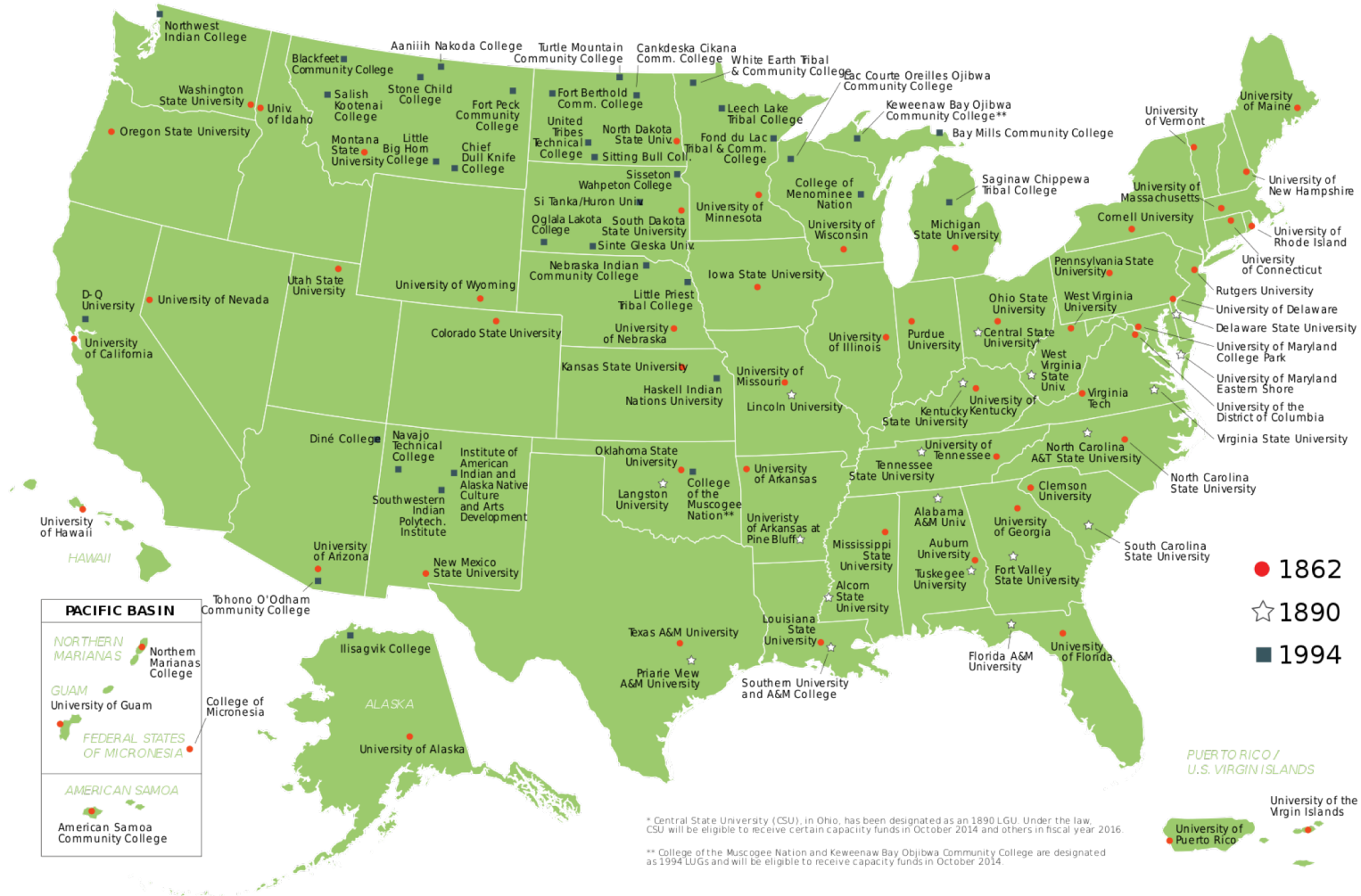
[upcea.edu/credentials](http://upcea.edu/credentials)



United States Department of Agriculture

National Institute of Food and Agriculture

# NIFA LAND-GRANT COLLEGES AND UNIVERSITIES







**Georgia** Professional  
**Tech** Education



Stereotypes Prejudice Unfair  
Research Behavior Beliefs  
UNCONSCIOUS  
Measure BIAS Implicit  
Reaction Respect  
Corporations Decisions Race  
People Social Subconscious  
Judgement Hidden Ethnicity  
Cognition Preferences Gender

Opinion

# College May Not Be Worth It Anymore

By Ellen Ruppel Shell

Ms. Ruppel Shell writes about science, social justice and the economy.

May 16, 2018

阅读简体中文版

Markets Tech Media Success Video

## Google doesn't care where you went to college

by Logan Whiteside @LoganWhiteside  
April 9, 2015, 8:30 PM ET



Here's how to get a job at Google

Google is consistently rated the best place to work. So you need a degree from Harvard to get in the door, right?

Not really, according to Lance Berk, Google's Head of People Operations.

OCTOBER 29, 2012

We All Lost The Debate / The Man Who Got Lance / Poll Me By Joel Stein

# TIME

## REINVENTING COLLEGE

A Special Report ON Higher Education BY AMANDA RIPLEY

OUR EXCLUSIVE POLL: 80% THINK COLLEGE ISN'T WORTH THE MONEY

WHY Blackboards STILL MATTER

FREE COLLEGE FOR EVERYONE

IN THEIR OWN WORDS: BARACK OBAMA & MITT ROMNEY ON HOW TO FIX HIGHER ED

1 PROFESSOR: 160,000 STUDENTS

\$900 BILLION IN COLLEGE LOAN DEBT

THE HARVARD OF THE INTERNET

www.time.com

## How Higher Education Is Bad for America

BY SHAUN R. HARPER  
July 13, 2017 1:40 PM EST

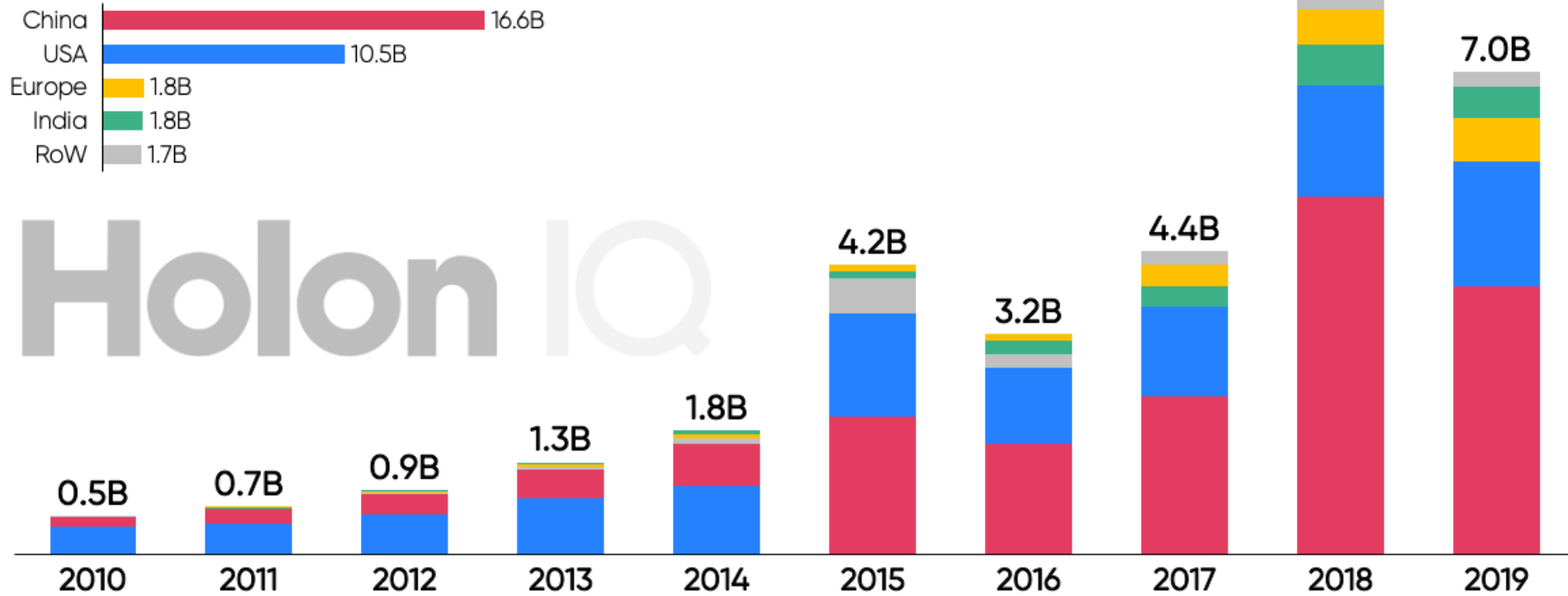


In a recent [Pew Research Center survey](#), 58% of Republicans and conservative-leaning respondents said they felt that colleges and universities negatively affect the U.S. By comparison, only 19% of Democrats and liberal-leaning respondents felt the same way. It is impossible to know exactly what about higher education respondents perceived harmful. Regardless, evidence concerning its value in improving our lives is clear.

College-educated Americans earn higher salaries, experience lower rates and shorter durations of unemployment, commit fewer crimes, live longer and healthier lives, and are more likely to parent children who subsequently attain high levels of education. Graduates also overwhelmingly occupy positions of leadership and wealth in every sector of our economy. Hence, to suggest college is somehow bad is inconsistent with decades of research that proves otherwise.

# Global Decade of EdTech VC

Global Education Venture Capital Funding by Year, 2010-2019 in USD Billions



Source: HolonIQ, January 2020

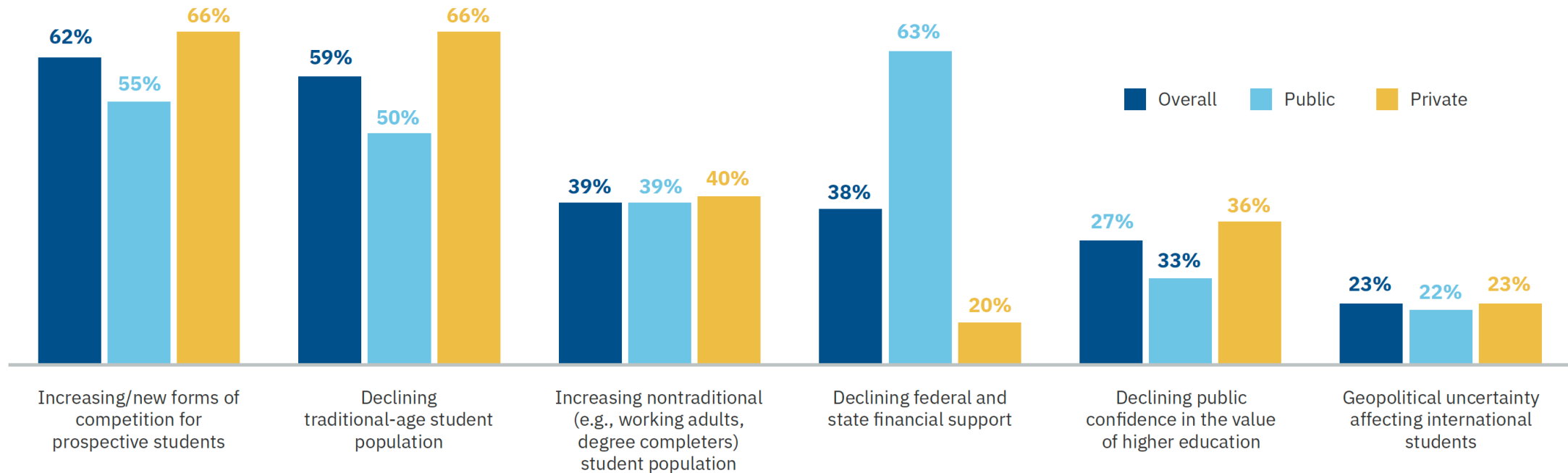
[www.holoniq.com](http://www.holoniq.com)





# HIGHER EDUCATION'S HEADWINDS – A GREATER SENSE OF URGENCY TO PREPARE

Revenue and Market Trends Expected to Impact Institutions in Next Five Years  
(Percentage who selected as a top three choice)



*\*The Transformation-Ready Higher Education Institution, 2019*









[upcea.edu/credentials](https://upcea.edu/credentials)